2.2.4.5.2.2 "ALTITUDE TYPE" Field Encoding

The "ALTITUDE TYPE" field is a 1-bit (bit 8 of byte 10) field used to identify the source of information in the "ALTITUDE" field. The encoding of this field is reflected in Table 2-13.

If the Altitude Type Selection Input is "unavailable" for the "Data Lifetime" value listed for this input in Table 2-64, then the "ALTITUDE TYPE" **shall** default to a value of ZERO if Pressure Altitude is available.

Table 2-13: "ALTITUDE TYPE" Encoding

Altitude Type	"ALTITUDE" Field (§2.2.4.5.2.3)	"SECONDARY ALTITUDE" Field (§2.2.4.5.5.1)
0	Pressure Altitude	Geometric Altitude
1	Geometric Altitude	Pressure Altitude

Note: *"Pressure Altitude" refers to "Barometric Pressure Altitude" relative to a standard atmosphere at a standard pressure of 1013.2 millibars (29.92 in Hg) and specifically* **DOES NOT** *refer to "Barometric Corrected Altitude."*

A means **shall** be provided to operationally inhibit the broadcast of Pressure Altitude information, making it unavailable for transmission. A means **shall** be providedIf an Altitude Type Selection Input is available, it **shall** be used to operationally select the preferred ALTITUDE TYPE that is reported if more than one ALTITUDE TYPE is available. If only one ALTITUDE TYPE is available, then that Altitude **shall** be indicated in the "ALTITUDE TYPE" fieldAltitude source is available, then use of that Altitude **shall** be reflected in both the "ALTITUDE TYPE" and ALTITUDE" fields..

Note: *The means to operationally inhibit the broadcast of pressure altitude information can be used at the request of ATC, or when altitude is determined to be invalid by the pilot. This is similar to the means defined in 14 CFR, §91.217(a).*

If the Altitude Input is "unavailable" for the "Data Lifetime" value listed for this input in Table 2-64, then that Altitude **shall** be deemed unavailable for the purposes of encoding the "ALTITUDE TYPE" field.

2.2.4.5.2.3 "ALTITUDE" Field Encoding

The "ALTITUDE" field is a 12-bit (bit 1 of byte 11 through bit 4 of byte 12) field used to encode the altitude of the ADS-B Transmitting Subsystem. The encoding of this field **shall** be as indicated in Table 2-14.

If the Altitude Input is "unavailable" for the "Data Lifetime" value listed for this input in Table 2-64, then that Altitude **shall** be deemed unavailable for the purposes of encoding the "ALTITUDE" field.